

## INTERNATIONAL SEARCH REPORT

Internatio plication No

PCT/IB 03/06058

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H05B41/392

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02 098186 A (MATSUSHITA ELECTRIC WORKS LTD ;KAMOI TAKESHI (JP); ABE TAKAHIRO (J) 5 December 2002 (2002-12-05) page 1, line 1 -page 21, line 4; figures 1-22	1-19
X	WO 02 34015 A (TRIDONICATCO GMBH & CO KG ;TROESTL ALFRED (AT); NACHBAUR ALEXANDER) 25 April 2002 (2002-04-25) page 1, line 3 -page 7, line 30; figures 1-6	1-3, 12-15, 17, 19
A	US 6 359 393 B1 (BROWN CRAIG) 19 March 2002 (2002-03-19)	

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.**\* Special categories of cited documents :****"A"** document defining the general state of the art which is not considered to be of particular relevance**"E"** earlier document but published on or after the international filing date**"L"** document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)**"O"** document referring to an oral disclosure, use, exhibition or other means**"P"** document published prior to the international filing date but later than the priority date claimed**"T"** later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention**"X"** document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone**"Y"** document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.**"&"** document member of the same patent family

Date of the actual completion of the international search

9 March 2004

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Information on patent family members

Internatio

lication No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02098186	A	05-12-2002	JP 2003217890 A	31-07-2003
			WO 02098186 A1	05-12-2002
			JP 2003229296 A	15-08-2003
WO 0234015	A	25-04-2002	DE 10051139 A1	25-04-2002
			AU 9380701 A	29-04-2002
			BR 0114678 A	07-10-2003
			WO 0234015 A1	25-04-2002
			EP 1330945 A1	30-07-2003
			US 2004004447 A1	08-01-2004
US 6359393	B1	19-03-2002	US 5806272 A	15-09-1998
			AT 215660 T	15-04-2002
			AU 2882397 A	05-01-1998
			CA 2206196 A1	30-11-1997
			WO 9746782 A1	11-12-1997
			DE 69711620 D1	08-05-2002
			DE 69711620 T2	18-07-2002
			EP 0902857 A1	24-03-1999
			ES 2174255 T3	01-11-2002
			JP 2000511249 T	29-08-2000
			US 6035602 A	14-03-2000